PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ubstitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet of

Complete if Known				
Application Number	10/605,638			
Filing Date	October 15, 2003			
First Named Inventor	RAHMAN, Anis	_		
Art Unit	2633			
Examiner Name	KIANNI, Kaveh C.			
Attorney Docket Number	23634-0001-U1			

			U.S. PATENT D	OCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
Initials	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear
	Α	US- 6,859,574 B2	02-22-2005	Doerr et al.	
1000	В	US- 6,769,274 B2	08-03-2004	Cho et al.	
	С	US- 2004/0105610 A1	06-03-2004	Rahman	
	D	US- 6,720,093 B2	04-13-2004	Samuel et al.	
	E	US- 2001/0033715	10-25-2001	Deliste et al.	
	F	US- 6,188,818 B1	02-13-2001	Han et al.	
	G	US- 6,051,372	04-18-2000	Bayerl et al.	
(Н	US- 5,546,483	08-13-1996	Inoue et al.	
11.	1	US- 5,208,111	05-04-1993	Decher et al.	
	J	US- 4,973,429	11-27-1990	Decher et al.	
		.US-			
		US-			
		US·			
		MS.			
		US-			

		FOREIGN PA	TENT DOCU	MENTS		
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁶ (# known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	7⁰
_					•	
		ļ				
- ··· ··· -			 			
		 				

		·	
Examiner Signature	den	Date Considered	6/23/09

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Complete if Known

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/605,638 Filing Date October 15, 2003

First Named Inventor RAHMAN, Anis

Art Unit 2633

KIANNI, Kaveh C. 23634-0001-U1

(Use as many sheets as necessary)

Examiner Name Sheet Attorney Docket Number

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
#	1	K. OKAMOTO; "Fundamentals of Optical Waveguides, Ch. 9"; Academic Press, New York 2000.	
	2	K.M.A. RAHMAN, C.J. DURNING, N.J. TURRO and D.A. Tomalia; "Adsorption of Poly(amido amine) Dendrimers on Gold"; Langmuir2000, volume 16; pages 10154 - 10160.	
	3	K.M. Anis RAHMAN, Christopher J. DURNING and Nicholas J. TURRO; "Molecular Dynamics of PAMAM Dendrimers"; http://dwdm2.home.comcast.net/p-amamdynamics.pdf.	
	4	Dendritic NanoTechnologies website at http://dnanotech.com/properties.html.	
	5	Akira OTOMO, Sonoko OTOMO, Shiyoshi YOKOYAMA, Tatuso NAKAHAMA, Shinro MASHIKO; "Remarkable optical properties of dendrimers for laser applications": Linear and Nonlinear Optics of Organic Materials; Manfred EICH and Mark G. KUZYK - Editors; Proceedings of SPIE; volume 4461; pages 180 - 187; 2001.	
	6	Alex K. Y. JEN, Hong MA, Takafumi SASSA, Sen LIU, S. SURESH, Larry R. DALTON, and Marnie HALLER; "Highly efficient and thermally stabler organic/polymeric electro-optic materials by dendritic approach"; Linear and Nonlinear Optics of Organic Materials; Manfred EICH and Mark G. KUZYK - Editors; Proceedings of SPIE; volume 4461; pages 172 - 179; 2001.	
	7	Pr. Gero DECHER; "L'Interfacage Macromoleculaire: Nouveaux Materiaux par Nanoassemblage"; Conference du Mercredi; 12 Fevrier 2003.	
	8	Claire PITOIS, Robert VESTBERG, Marlene RODLERT, Eva MALMSTROM, Anders HULT, Mikael LINDGREN; "Flourinated dendritic polymers and dendrimers for waveguide applications"; Optical Materials; volume 21, pages 499 - 508; 2002.	
	9	Larry R. DALTON; "Polymeric and Dendritic Electro-Optic Materials: Materials Issue"; University of Washington; Seattle, Washington 98185-01700.	
	10	C. DRAGONE; "An NxN Optical Multiplexer Using a Planar Arrangement of Two Star Couplers"; IEEE Photonics Technology Letters; volume 3; number 9; pages 812 - 815; September 1991.	
V	11	Y. INOUE, A. HIMENO, K. MORIWAKI, M. KAWACHI; "Silica-based arrayed-waveguide grating circuit as optical splitter/router"; Electronics Letters; volume 31; number 9; pages 726 - 727; April 27, 1995.	

	 · · · · · · · · · · · · · · · · · · ·						
Examiner	^	Date			23/	2 5	
Signature		Considered	ΙV	(-	-)(

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitut	e for form 1449B/P1	то		Complete if Known			
INIEC	NORA A TION	ı Dic	CL OCUDE	Application Number	10/605,638		
			CLOSURE	Filing Date	October 15, 2003		
SIA	STATEMENT BY APPLICANT			First Named Inventor	RAHMAN, Anis		
			•	Art Unit	2633		
	(Use as many sheets as necessary)			Examiner Name	KIANNI, Kaveh C.		
Sheet	3	of	3	Attorney Docket Number	23634-0001-U1		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т;
X	12	H. BISSESSUR, B. MARTIN, R. MESTRIC, and F. GABORIT; "Small-size, polarization-independent phased-array demultiplexers on InP"; Electronics Letters; volume 31; number 24; pages 2118 – 2120; November 23, 1995.	
	13	T. BRENNER, C.H. JOYNER and M. ZIRNGIBL; "Compact design waveguide grating routers"; Electronics Letters; volume 32; number 18; pages 1660 – 1661; August 29, 1996	
	14	M. ZIRNGIBL, C.H. JOYNER AND J.C. CENTANNI; "Size reduction of waveguide grating router through folding back the input/output fanouts"; Electronics Letters, volume 33; number 4; pages 295 – 297; February 13, 1997.	
V	15	Hideaki OKAYAMA, Masato KAWAHARA and Takeshi KAMIJOH; "Reflective Waveguide Array Demultiplexer in LiNbO ₃ "; Journal of Lightwave Technology; volume 14; number 6; pages 985 – 990; June 1998.	
			-
			•
	1 1		
xaminer Signature	1 1	Date Considered 6/23/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

EXAMINER: initial in reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant:

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 1450.

PTO/SE/08A (08:03)

Approved for use through 07/31/2008, OMB 0851-0131

Substitu	stitute for form 1449/PTO		. Coi	nplete if Known	
			Application Number	10/605,638	
INIC	ORMATION DI	SCI OSIIDE	Filing Date	October 15,2003	
			Pirst Named Inventor	Anis Rahman	
STA	ATEMENT BY		Art Unit	2883	
	(Use as many sheets as	r necessary)	Examiner Name	Frank G. Font	
Sheet	1 01	1	Attorney Docket Number	-	

			U. S. PATEN	T DOCUMENTS	
Examiner Initials	Cite No.'	Number-Kind Code ^{2 (Finance)}	Publication Data MM-DD-YYYY	Name of Patentee or Applicant of Citod Decument	Pagea, Columna, Lines, Who a Relevant Passages or Relevant Figures Appear
W	$\overline{}$	^{US-} 5,396,507	03/07/1995	Kaminow et al.	
•		US-			
		US-			
		U\$-		<i>Y</i>	·
		US-			
		US-			
		US-			
		UŠ-	<i>X</i>		
		US-			
		US-	_		
		US-			
		US-			
		US-			
		U\$-			
	<u> </u>	/us-			
	-	US-			
		US-	-		
/	-	US-	 		<u> </u>
•			1	<u> </u>	.

EXAMINER: Initial if reference considered, whether or not cliation is in conformance with MPEP 608. Draw line through creation if not in pornormance and not considered, include copy of this form with next communication to applicant. Applicant's unique criation designation number (optional). See Kinds Code: of CODE: of Parent Documents at www.uspric.org/ or MPEP 801.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent cocuments, the indication of the year of the reign of the Emperor must precede the sortal number of the patent document. Mind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.86. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to take 2 hours to complete, including pathering, preparing, and submitting the completed application form to HSPTO. Time will vary depending upon the individual case. Any commitment on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Pstent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND 150 committees are also applied to the completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.